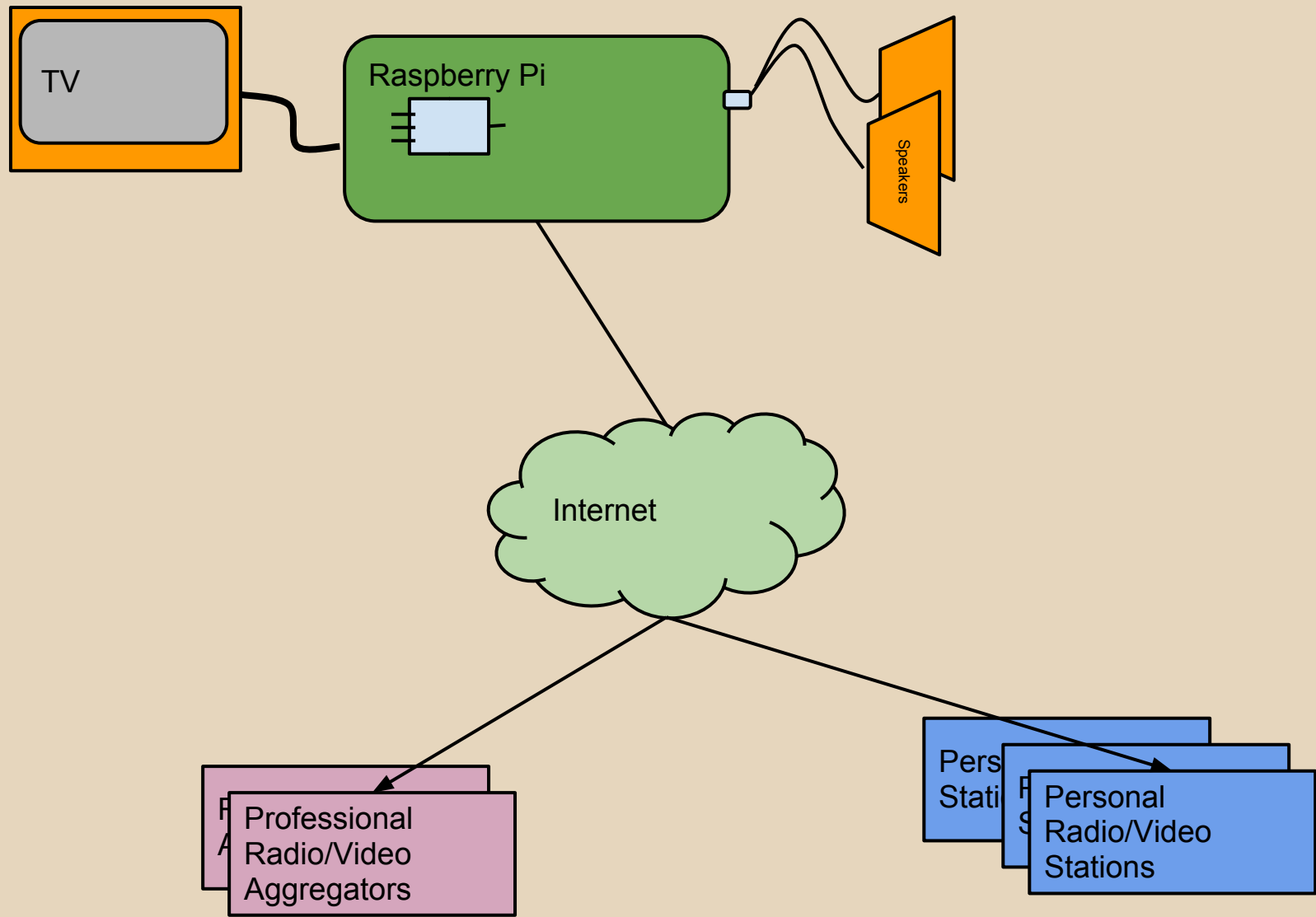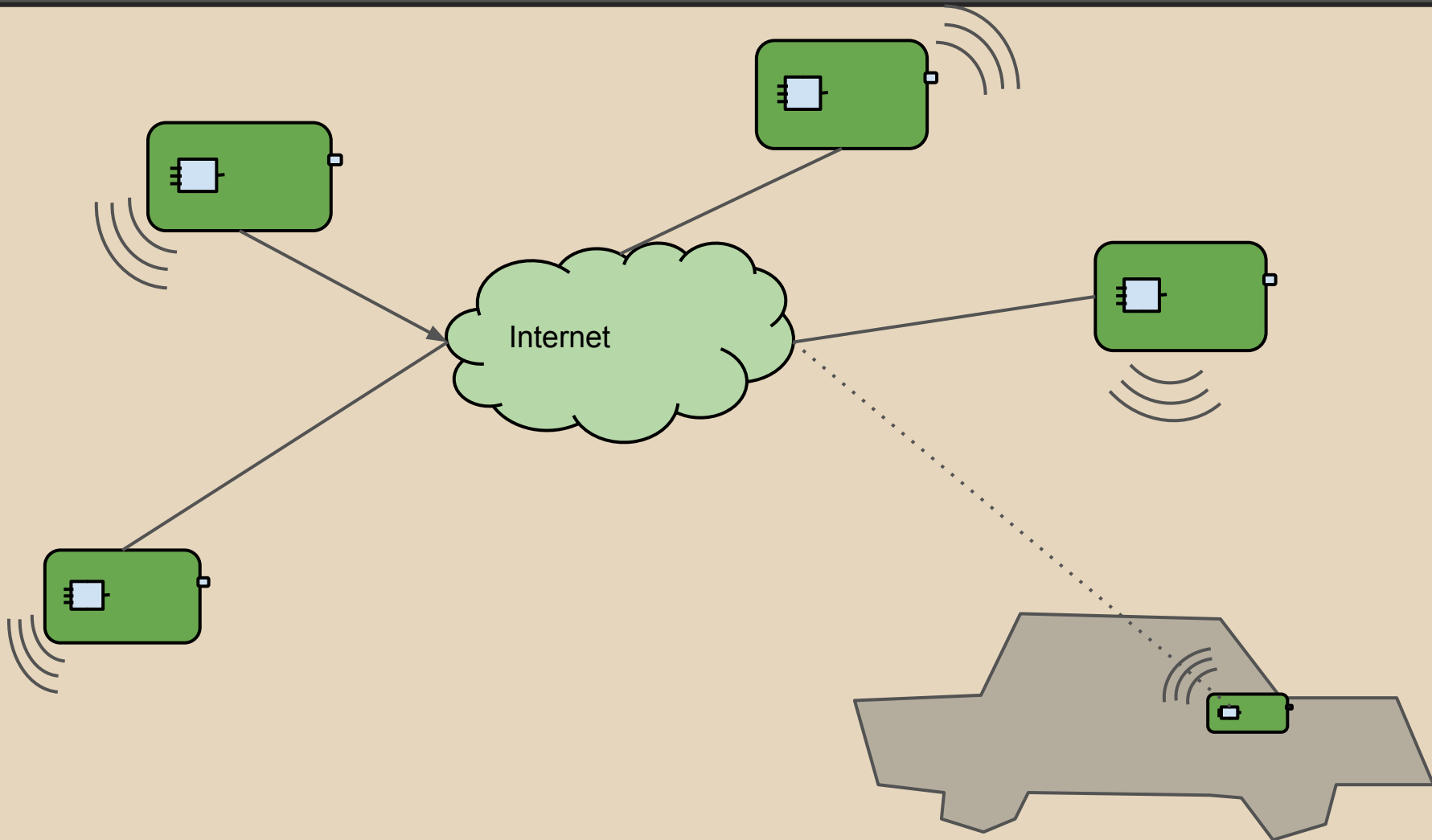# MediaPie

Peer-to-peer social media radio

Concept: A simple gadget can become a Internet-based media center
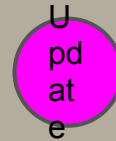
TV

Raspberry Pi

Speakers

Internet

Professional Radio/Video Aggregators
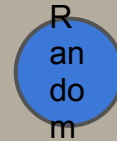
Personal Radio/Video Stations
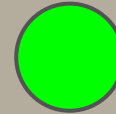
Everyone is a radio station

Internet

Functions (user view with a panel)

Now playing:
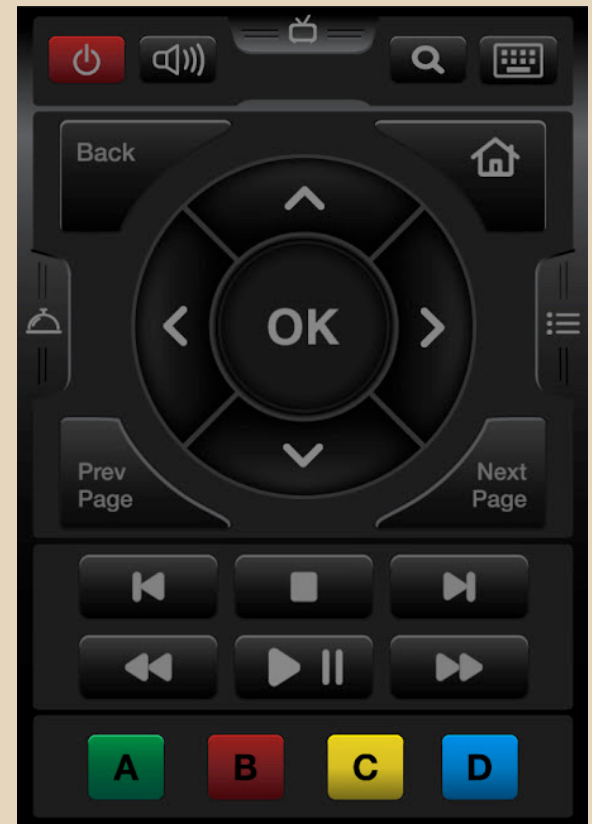Channel 中国新闻

New   Random   Update
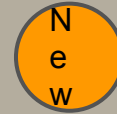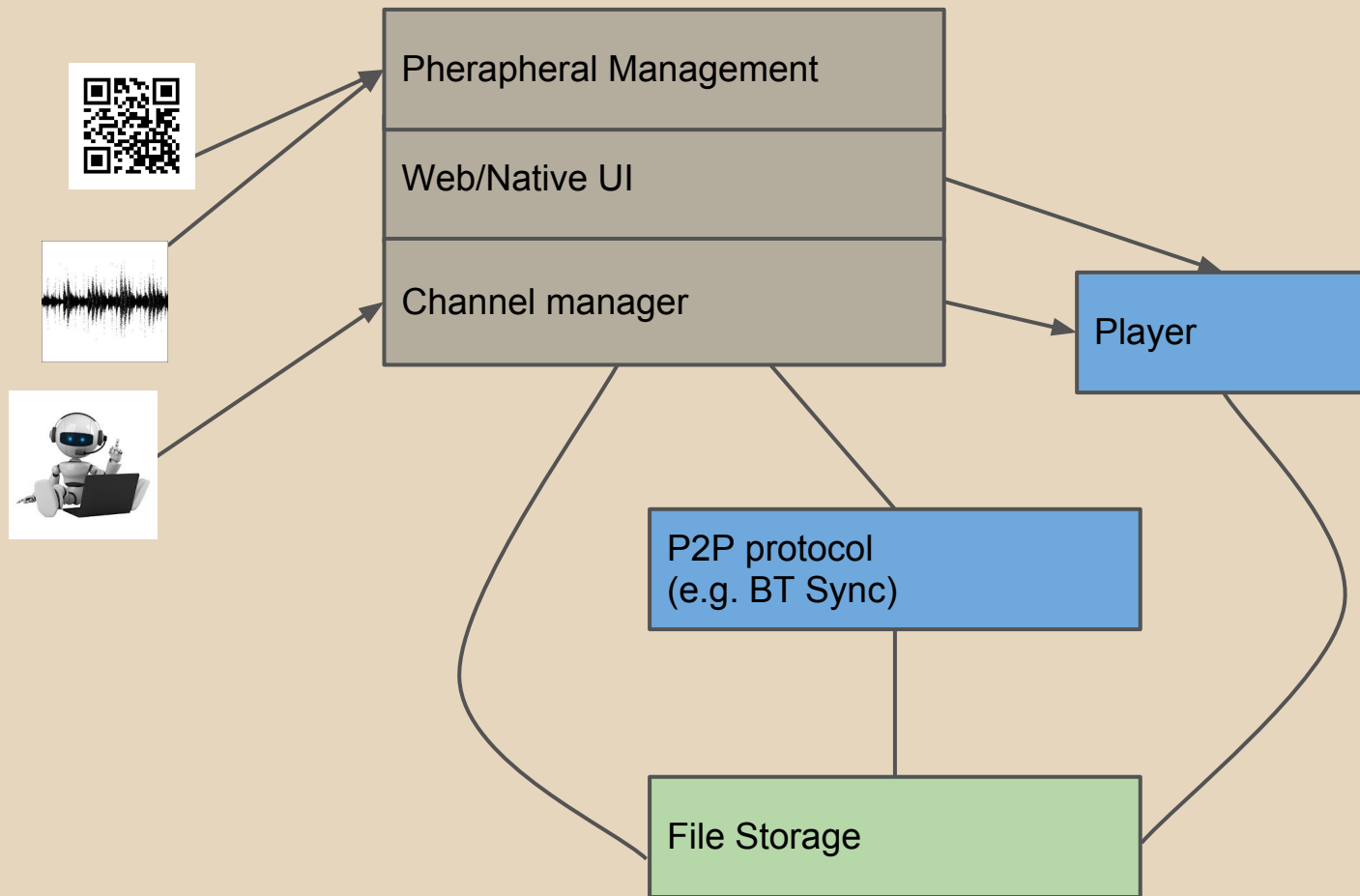
Functions(User view with a display)

Functions(user view with mobile remote)

HTML5 UI (device neutral)

- add new channel
- select channel
- playback(shuffle,new,etc)
- favorite (archive)
- create/share channel (based on favorites)
- system information(storage, network, etc.)

Architecture

Local Data Storage Structure

--- My station

---RM3GRQKX4Z25LO73YNSHDOFKER5AVSTIJ

   |------- station.xml

   |-------- station.jpg //size/ratio defined

   |-------- /data folder

---TKXSVDDW644QIHGTAM5YMSD34JRIIRNO

   |------- station.xml

   |-------- station.jpg //size/ratio defined

   |-------- /data folder

Station Metadta (station.xml)

```xml
<station>
    <name>天籁之音</name>
   <curator>Cherry</curator>
   <timeZone>GMT-8</timeZone>
   <secret>RM3GRQKX4Z25LO73YNSHDOFKER5
AVSTIJ
   </secret>
   <info>这是我多年收集的最好听的歌声
</info>
</station>
```

Modules

- player.py --- manage playback
- pybtsync.py ---- python module to access BT Sync, managing the uploading/downloading of media files
- (coming) UI modules
- (coming) communication with "Me" project

Scenarios